PROJECT CHARGE: 2106

PROJECT TITLE: APPLIED TECHNOLOGY

PROJECT LEADER: J. L. Banyasz

PERIOD COVERED: September 1 - 30, 1985

DATE OF REPORT: September 26, 1985

PACKAGING (C. D. Owens, T. V. Van Auken)

A memo was issued detailing the results with regard to moisture transmission rate versus pack seal efficiency as measured by the IMPS unit. The pack moisture transmission rate was found to fall off exponentially with IMPS value to the permeability limit of the film. Maximum sealing reduced the moisture transmission rate by a factor of about two as compared to a poorly sealed pack. It appears that further reductions would require an improvement in the barrier itself.

A collaborative program with Development was started to evaluate the potential of microencapsulated water as a means of maintaining pack moisture. Samples of three types of microcapsules, received from R. Thiesing, were monitored for rate of water release at RH values of 30, 60 and 90%. The capsules released water at all three RH values though the rate fell off with increasing RH. This work is ongoing.

FLAVOR TRANSFER (A. L. Finley and V. Bowles)

Work continued in the area of defining a reproducible and reversible activation process for silica gels. The procedures previously determined on the DTA were scaled up to the multigram level. Difficulties in the scale-up were encountered due to mass transfer problems which are not a factor with the milligram quantities involved in the DTA experiments. Ongoing experiments indicate that slower heating rates and increased vacuum will probably be required for the larger samples.

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